Nicolas MOËS

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Current position

Professor of mechanical engineering, Ecole Centrale de Nantes

Education

Mechanical Engineering, Université de Liège, Belgique (1992)
Ph. D. Ecole Normale Supérieure de Cachan (France) (1996)

Research Interests

Computational methods in engineering for fracture and impact.
Extended finite element method (X-FEM)
Software development for finite elements : C++ and parallel.

Career

Professor of Mechanical Engineering, Ecole Centrale de Nantes, since 2001
Habilitation à diriger les recherches, Université Pierre et Marie Curie (France), 2000
Research Assistant Professor, Northwestern University (USA), 1999-2001
Research Assistant, Northwestern University (USA), 1998-1999
Post-Doctoral Fellow, University of Texas at Austin (USA), 1996-1998

Honors and awards

Young researcher French award (ACI Jeunes checheurs) (2001) Jean Mandel Prize from the French association of mechanics (2003)

Professional activities

Editorial boards

Revue Européenne des éléments finis, since 2003

Community services

Recruiting board of the Universtiy of Rennes (France) since 2004

University services

Scientific Council, Ecole Centrale de Nantes since 2002
Chairman of the recruiting board of the Ecole Centrale de Nantes since 2004
Recruiting board of the Ecole Centrale de Nantes since 2002
Teaching department council since 2003

Summary of journal publications

Journal	**Impact factor**	**Number of papers**
International Journal for Numerical Methods in Engineering	1,691	12
Computer Methods in Applied Mechanics and Engineering	1,252	8
Other indexed journals		3
Other papers in refereed journals		6

Selected publications (max. 5)

Moës N, Dolbow J, Belytschko T, “A finite element method for crack growth without remeshing”. International Journal For Numerical Methods in Engineering, 1999 (119 times cited)

Belytschko T, Moës N, Usui S, Parimi C, "Arbitrary discontinuities in finite elements", International Journal for Numerical Methods in Engineering 2001 (59 times cited)

Moës N, Belytschko T, “Extended finite element method for cohesive crack growth, Engineering fracture mechanics”, International Journal for Numerical Methods in Engineering 2002 (22 times cited)

Moës N, Oden J.T, Zohdi T.I, "Investigation of the interactions between the numerical and the modeling errors in the homogenized Dirichlet projection method", Computer Methods In Applied Mechanics And Engineering, 1999

Ladevèze P, Moës N, Douchin B, "Constitutive relation error estimators for (visco)plastic finite element analysis with softening", Computer Methods In Applied Mechanics And Engineering, 1999

Other relevant information